





You and Your Car:

The Key to Cleaner Air & Greater Fuel Efficiency

Louisville





Presented by Matt Stull June 29, 2010

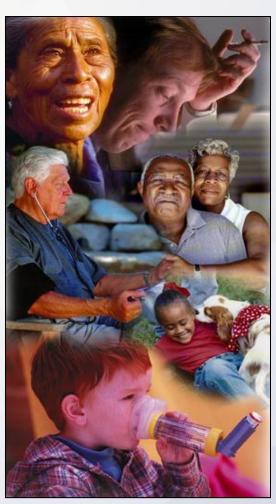


Air Quality 101

- Clean Air Act (CAA)
 - Requires EPA to set 6 criteria pollutants National Ambient Air Quality Standards (NAAQS)
 - Health-based standards
 - Reviewed every 5 years
- APCD responsible for attaining the NAAQS

Carbon Monoxide Lead Sulfur Dioxide Oxides of Nitrogen Ozone Particulate Matter

Some Groups Are More at Risk



- People with heart or lung disease
 - Conditions make them vulnerable
- Older adults
 - Greater prevalence of heart and lung disease
- Children
 - More likely to be active
 - Breathe more air per pound
 - Bodies still developing



AQI Levels of Health Concern	Numerical Value	Meaning
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.

Handle the Pressure

Keep your vehicle's tires properly inflated

- Measure pressure when car is "cold"
- Check door jamb for recommended pounds per square inch (PSI)





Care for Your Car

Regular maintenance and tune-ups

- Improve gas mileage
- Extend car life
- Improve resale value





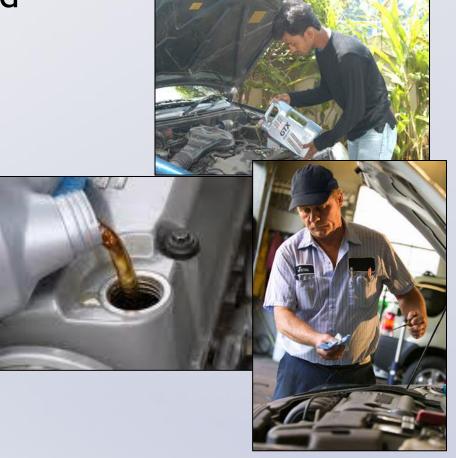


Stay on Schedule

Change engine oil and filter regularly

Every 3 months or 3,000 miles

Or as recommended in your Owner's Manual

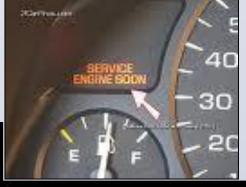




Put Out the Light

- The "Check Engine" light lets you know about a possible mechanical problem
- A proper diagnosis and repair can help the air and save you money in the long run









Fueling Habits

- To reduce excess emissions of smog-forming pollutants remember:
 - Refuel when it's cool
 In the early morning or late evening
 - Stop at the clickDon't top off your tank
 - Lock it down
 Make sure your gas cap is on tight





Get the Junk Out of the Trunk

Avoid keeping unnecessary items in your vehicle, especially heavy ones





Driving Habits

- Know before you go
 - Check traffic reports
- Use your GPS
- Trip chaining
 - Plan and combine errands
- Accelerate smoothly
- Use your cruise control





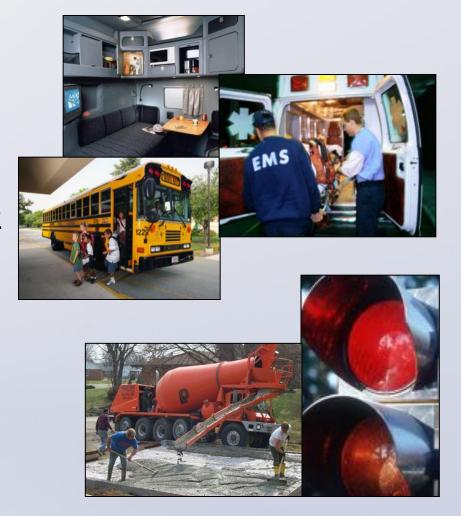
Avoid Unnecessary Idling

Idling occurs when a vehicle's main engine is running but the vehicle is not



Reasons for Idling

- Safety
- Traffic conditions and traffic signals
- Operation of auxiliary and power take-off equipment
- Vehicle care and maintenance, repair, and inspection
- Comfort/Convenience
- Waiting





Choose a Fuel Efficient Ride

 Selecting which vehicle to purchase is the most important fuel economy

decision you'll make

• The difference between 20 MPG and 30MPG is \$683/yr*





NAAQS Attainment

June 2010 Status

Pollutant	Standard	Averaging Time	Attainment Status
Coulous Manavida	9 ppm	8-hour	Attainment
Carbon Monoxide	35 ppm	1-hour	Attainment
Land	$0.15 \mu g/m^3$	Rolling 3-Mo Average	Attainment
Lead	$1.5 \mu g/m^3$	Quarterly Average	Attainment
Nitrogen Dievide	0.053 ppm	Annual Average	Attainment
Nitrogen Dioxide	0.10 ppm	1-hour	Attainment
Particulate Matter (PM10)	150 μg/m ³	24-hour	Attainment
Double Methon (DM2 F)	$15.0 \mu g/m^3$	Annual Average	Nonattainment
Particulate Matter (PM2.5)	35 μg/m ³	24-hour	Attainment
Ozone	0.08 ppm	8-hour	Attainment
Sulfur Dioxide	0.03 ppm	Annual Average	Attainment
Juliui Dioxide	0.14 ppm	24-hour	Attainment



NAAQS Attainment

Anticipated Status

Pollutant	Standard	Averaging Time	Attainment Status
Carbon Monoxide	9 ppm	8-hour	Attainment
Carbon Monoxide	35 ppm	1-hour	Attainment
Lead	$0.15 \mu g/m^3$	Rolling 3-Mo Average	Status Uncertain
Leau	1.5 $\mu g/m^3$	Quarterly Average	Attainment
Nitrogen Dioxide	0.053 ppm	Annual Average	Attainment
Nitrogen Dioxide	0.10 ppm	1-hour	Status Uncertain
Particulate Matter (PM10)	150 μg/m ³	24-hour	Attainment
Particulate Matter (PM2.5)	10.0 to 14.0 μg/m³	Annual Average	Nonattainment
Particulate Matter (PM2.5)	25 to 35 μg/m³	24-hour	Status Uncertain
Ozone	0.060 to 0.070 ppm	8-hour	Nonattainment
Sulfur Dioxide	0.075 ppm	1-hour	Nonattainment

Clearing the Air

A Seminar Series

March 20th	Day Seminars	Evening Seminars
March 30 th	Air Quality 101	Air Quality 101
May 25 th	Managing Buildings and Grounds for Air Quality with special guest Kentucky Pollution Prevention Center	Lawn Care for Cleaner Air
June 29 th	Idle Reduction Tool Kit: Turn the Key for Cleaner Fleets	You and Your Car: The Key to Cleaner Air and Greater Fuel Efficiency
July 27th	Commercial Energy Efficiency with special guest LG&E	Residential Energy Efficiency with special guest LG&E
Aug. 31st	It All Adds Up: A Guide To Air Monitoring	It All Adds Up: A Guide To Air Monitoring

State of the Air

Lauren Anderson

with Executive Director

State of the Air

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Resources

- www.louisvilleky.gov/APCD
- Air Quality Index
 - 502-574-3319
 - www.airnow.gov
- KAIRE www.helptheair.org
- www.epa.gov
- www.air.ky.gov



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